

INTERNAL USE ONLY

Notifiable incident

Notification ID	NTF11961
Duty holder	Woodside Energy Ltd
Facility/Activity	CWLH OKHA FPSO
Nearest state	WA
Incident	OHS-DSCE - HVAC damper failed to meet performance standard during 3 monthly CFT testing

Basic information provided at time of notification

Notification type	Incident
Incident date	26/12/2022 10:30 PM (AWST)
Notification date	27/12/2022 04:20 PM (AWST)
NOPSEMA response date	27/12/2022 04:22 PM (AWST)
Received by	[REDACTED]

Summary of information provided

Brief descriptive title	OHS-DSCE - HVAC damper failed to meet performance standard during 3 monthly CFT testing
Incident location	
Subtype/s	Valve failure
Summary (provided at notification)	I'm reporting a damage to safety critical equipment. Was conducting the three monthly PM on the HVAC system, the pump room exhaust fan #3 fire damper did not close and therefore did not meet its performance standard. The damper was then exercised, lubricated and repeat function tested and passed.

Request permission to disturb the site

Permission given	Yes
Permission given by	
Permission given on	

Initial spill and release amounts

Gas (kg)	
Liquid (L)	
Release type	
More information	

Details of person providing information to NOPSEMA

Full name	[REDACTED]
Job title	[REDACTED]

Initial notification category

Initial category type (based on notification)	Dangerous Occurrence
Initial category (based on notification)	OHS - damage to safety-critical equipment

Running sheet

There are no running sheet entries for this notification

Decision

Escalate to level 1	Yes
Inspector	
Escalated on	04/01/2023 14:57

Final notification category

Final category type <i>(based on final report)</i>	Dangerous Occurrence
Final category <i>(based on final report)</i>	OHS - damage to safety-critical equipment

Immediate causes

Details	The Frangible Trigger Valve's inability to overcome frictional forces caused by build up of foreign material externally and the internal stiction of valve assembly.
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Initial report

Due date	29/12/2022
Received date	28/12/2022
Reviewed date	12/01/2023
Reviewed by	

Additional details provided by duty holder	<p>Brief description of incident During execution of HVAC Damper 3 monthly Preventative Maintenance (PM) the Pump Room Exhaust Fan # 3 fire damper did not operate on demand (Close). The damper 03HDF680001 Frangible Trigger Valve was was found to have insufficient lubrication inhibiting the operation of the damper from meeting the acceptance criteria of the performance standard (PS F10.4). The Frangible Trigger Valve was exercised, lubricated and successfully retested</p> <p>Work or activity being undertaken at time of incident HVAC Damper 3 monthly Preventative Maintenance (PM) Testing</p> <p>What are the Internal Investigation Arrangements Internal investigation in accordance with the Woodside "Health, Safety and Environment Event Reporting, Investigating and Learning Procedure</p> <p>Action taken to make the work-site safe</p> <p>Action taken: Investigation revealed insufficient lubrication of Frangible Trigger Valve. Valve exercised and lubricated resulting in damper meeting Performance Standard acceptance criteria. Damper returned to service and will be retested in 1 month to confirm reliability.</p> <p>Details of any disturbance of the work site Post exercising and lubrication, damper tested multiple times to ensure reliability of performance criteria being met, and then returned to service.</p> <p>Was an emergency response initiated? No Was anyone killed or injured? No</p> <p>Immediate action taken/intended, if any, to prevent recurrence of incident.</p> <p>Action: Damper was investigated and it was found that the Frangible Trigger Valve failed to Depressure the damper actuator on demand. It was identified that the Valve required exercising and lubrication for repeatable free movement. The damper was tested multiple times to ensure conformance to the Performance Standard F10.4 Responsible party [REDACTED] Completion date 26-Dec-2022 Actual or Intended Actual</p> <p>Action Re-perform test in 1 month. Notification and work order raised. Responsible party [REDACTED] Completion date 25-Jan-2023 Actual or Intended Intended</p> <p>Action Clean and Lubricate Frangible Trigger valves for Pump room Supply and Exhaust fans. Notification and work order raised. Responsible party [REDACTED] Completion date 03-Jan-2023 Actual or Intended Intended</p>
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Final report	
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Due date	25/01/2023
Received date	05/01/2023
Reviewed date	12/01/2023
Reviewed by	[REDACTED]

Additional details provided by duty holder	<p>Describe investigation in detail, including who conducted the investigation and in accordance with what standard/procedure Investigation completed by [REDACTED] in accordance with Woodside Health Safety and Environment Event Reporting. Information gathered from the internal inspection of Frangible Trigger Valve supported end of service life. Historical data reviewed for similar in-service units identified a recorded failure of a Frangible Trigger Valve with a service life of 10+ years. The investigation team could reasonably assume that the service life for this particular item with current routine function testing in the environment (Marine) would be 10 years before an increased risk of failure was likely. Review of installed Frangible Trigger valve assemblies identified one valve with 10+ years' service life and the remaining valves are within the assumed service life. The Identified 10+ year old valve will be replaced as part of this investigation response.</p> <p>Actions to prevent recurrence of same or similar incident</p> <p>Action Replace Frangible Trigger Valves identified at risk of failure (End of service life) Responsible party [REDACTED] Completion date 31-Mar-2023 Actual or Intended Intended</p> <p>Action Perform repeat function test of Frangible Trigger Valves (Pump Room Dampers) Responsible party [REDACTED] Completion date 27-Jan-2023 Actual or Intended Intended</p>
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Final spill and release amounts	
Gas (kg)	0.00
Liquid (L)	0.00
Release type	
More information	

Root causes	
Code	
Description	<p>Has the investigation been completed? Yes</p> <p>Root cause analysis Root Causes Analysis Factor: EQ5-0 Equipment Tolerable Failure</p> <p>Comments Internal inspection identified root cause as worn internals, - End of serviceable lifecycle. The trigger valve assembly has been in service since 2010. Subject to recurring maintenance testing regime for past 12 years with no reported failure. Valve internal inspection identified signs of wear to components. Function testing of the damper post internal inspection resulted in a slow deterioration of performance until deemed unreliable /unserviceable.</p>

All data received	
Date	12/01/2023

